LIST OF CONTENTS

VOLUME 26 (1995)

Number 1

Katharine Walker, Martin Perkins and Andy Dray	1	Invited Review: Kinins and kinin receptors in the nervous system
Judith M. Hall and Pierangelo Geppetti	17	Critique: Kinins and kinin receptors in the nervous system
Harold K. Kimelberg	27	Commentary: Receptors on astrocytes—what possible functions?
Yannis Dalezios, Nikolaos Matsokis and Theony Valcana	41	Interaction between [^{3}H]flunitrazepam and [^{3}H]GABA binding in the cerebellum of reeler mice
Donald R. Gehlert, Douglas A. Schober, Susan K. Hemrick-Luecke, Joseph Krushinski, J. Jeffry Howbert, David W. Robertson, Ray W. Fuller and David T. Wong	47	Novel halogenated analogs of tomoxetine that are potent and selective inhibitors of norepinephrine uptake in brain
Michihisa Tohda, Hisashi Urushihara and Yasuyuki Nomura	53	Inhibitory effects of antidepressants on NMDA-induced currents in *Xenopus* oocytes injected with rat brain RNA
Daiken Han, Kiyokazu Ogita and Yukio Yoneda	59	Potentiation by calcium ions of [^{3}H]MK-801 binding to an ion channel associated with the *N*-methyl-D-aspartate receptor complex in rat brain
Marina Bigl and Klaus Eschrich	69	Interaction of rat brain phosphofructokinase with Alzheimer's βA4-amyloid
M. Morari, G. Calo, L. Ferraro, A. Fabrizi, N. Acciarri, G. Piazza, C. Bianchi and L. Beani	77	AMPA receptor activation regulates the glutamate metabotropic receptor stimulated phosphatidylinositol turnover in human cerebral cortex slices
Asami Umino, Toru Nishikawa and Kiyohisa Takahashi	85	Methamphetamine-induced nuclear c-Fos in rat brain regions
Jin-ichi Ito, Mari Masuda, Toyohiro Tada and Ryo Tanaka	91	Rapid and gentle extraction, reconstitution and characterization of microfilament and glia filament from rat astrocytes
	99	Book Review
	101	Corrigendum
	I	News Items

Number 2

D. Bruce Campbell	103	Are interspecies comparisons in the toxicity of centrally acting drugs valid without brain concentrations? A commentary
Lynda Erinoff	111	General considerations in assessing neurotoxicity using neuroanatomical methods
J. P. O'Callaghan, K. F. Jensen and D. B. Miller	115	Quantitative aspects of drug and toxicant-induced astrogliosis

Virginia M. Pickel and June Chan	125	Use of quantitative ultrastructural immunoperoxidase labeling for analysis of catecholamine neurotoxicity and plasticity
F. C. Zhou, L. Lumeng and T.-K. Li	135	Quantitative immunocytochemical evaluation of serotonergic innervation in alcoholic rat brain
M. L. Schmidt and J. Q. Trojanowski	145	Immunohistochemical detection of the effects of toxic injury on the central nervous system
Vladimir J. Balcar, Yi Li and Suzanne Killinger	155	Effects of L-*trans*-pyrrolidine-2,4-dicarboxylate and L-*threo*-3-hydroxyaspartate, on the binding of [^{3}H]L-aspartate [^{3}H]α-amino-3-hydroxy-5-methyl-4-isoxazolepropionate (AMPA), [^{3}H]DL-(*E*)-2-amino-4-propyl-5-phosphono-3-pentenoate (CGP 39653), [^{3}H]6-cyano-7-nitroquinoxaline-2,3-dione (CNQX) and [^{3}H]kainate studied by autoradiography in rat forebrain
Yasuhiro Itano, Yoshihisa Kitamura and Yasuyuki Nomura	165	Biphasic effects of MPP^+, a possible Parkinsonism inducer, on dopamine content and tyrosine hydroxylase mRNA expression in PC12 cells
Katarzyna Lukasiuk, Leszek Kaczmarek and Daniele Filippo Condorelli	173	Inducible and constitutive transcription factor NF-κB-like DNA binding activities in rat brain cells cultured *in vitro*
Sven O. Johanson, Yi Li and Vladimir J. Balcar	179	Glutamate decarboxylase solubilized from the rat cerebral cortex by two different concentrations of Triton X-100: effects of glutamate analogues and analysis by SDS–PAGE/Western blotting using GAD6 and K2 antibodies
Futoshi Arakane, Kohji Fukunaga, Mei Satake, Kohji Miyazaki, Hitoshi Okamura and Eishichi Miyamoto	187	Stimulation of cyclic adenosine 3′,5′-monophosphate-dependent protein kinase with brain gangliosides
Jean C. Linder, Stephen J. Young and Philip M. Groves	195	Electron microscopic evidence for neurotoxicity in the basal ganglia
	203	Book Reviews
	I	News Items

Number 3

Tsunehiko Ono, Hideyuki Yamamoto, Kazuhiro Tashima, Hisashi Nakashima, Eiichi Okumura, Keisuke Yamada, Shin-Ichi Hisanaga, Takeo Kishimoto, Taihei Miyakawa and Eishichi Miyamoto	205	Dephosphorylation of abnormal sites of tau factor by protein phosphatases and its implication for Alzheimer's disease
Margaret A. Reilly and Abel Lajtha	217	Glutamatergic receptor kinetics are not altered by perinatal exposure to aspartame
A. L. Alonso-Gómez, A. I. Valenciano, M. Alonso-Bedate and M. J. Delgado	223	Differential characteristics and regulation of arylamine and arylalkylamine *N*-acetyltransferases in the frog retina (*Rana perezi*)
Yasumasa Okamoto, Ariyuki Kagaya, Nobutaka Motohashi and Shigeto Yamawaki	233	Inhibitory effects of lithium ion on intracellular Ca^{2+} mobilization in the rat hippocampal slices
Flemming Fryd Johansen, Bertrand Lambolez, Etienne Audinat, Pascal Bochet and Jean Rossier	239	Single cell RT-PCR proceeds without the risk of genomic DNA amplification

Ute Becherer, Sabine Kuchler-Bopp, Francis Aubert, Bernard Rousseau, Beat M. Riederer, Dolor Renko, Catherine Quirosa-Guillou, Claude Thal and Jean-Pierre Zanetta	245	Increased axonal regrowth of lesioned rat sciatic nerve by veratryl-guanidine methane sulfonate
T. Yamaguchi, K. Keino and J. Fukuda	255	The effect of insulin and insulin-like growth factor-1 on the expression of calretinin and calbindin D-28k in rat embryonic neurons in culture
J. C. Oliveira, M. D. Constantino, A. M. Sebastião and J. A. Ribeiro	263	Ascorbate/Fe^{3+}-induced peroxidation and inhibition of the binding of A_1 adenosine receptor ligands in rat brain membranes
Atsushi Kashiwa, Toru Nishikawa, Koichi Nishijima, Asami Umino and Kiyohisa Takahashi	269	Dizocilpine (MK-801) elicits a tetrodotoxin-sensitive increase in extracellular release of dopamine in rat medial frontal cortex
David J. Bates, Dianne C. Mangelsdorf and Jodie A. Ridings	281	Multiple neurotrophic factors including NGF-like activity in nerve regeneration chamber fluids
Lucien Bettendorff	295	Thiamine homeostasis in neuroblastoma cells
	303	Book Reviews
	I	News Items

Number 4

Igal Nevo and Michel Hamon	305	Invited Review: Neurotransmitter and neuromodulatory mechanisms involved in alcohol abuse and alcoholism
R. D. Myers, B. A. McMillen and A. Adell	337	Critique: Neurotransmitter and neuromodulatory mechanisms involved in alcohol abuse and alcoholism: epitome of cerebral complexity
B. E. Leonard	343	Critique: The involvement of neuromediation in alcohol abuse and alcoholism
J. Bajgar, H. Michalek and G. M. Bisso	347	Differential reactivation by HI-6 *in vivo* of paraoxon-inhibited rat brain acetylcholinesterase molecular forms
Markus Heilig and Rolf Ekman	351	Chronic parenteral antidepressant treatment in rats: unaltered levels and processing of neuropeptide Y (NPY) and corticotropin-releasing hormone (CRH)
Eila Kolehmainen	357	Mechanism of the myelin basic protein-induced insulin and glucagon release from isolated rat pancreatic islets
Noriaki Ishioka, Junko Sato, Junta Nakamura, Tatsuo Ohkubo, Akihiro Takeda and Susumu Kurioka	369	*In vivo* modification of $GABA_A$ receptor with a high dose of pyridoxal phosphate induces tonic–clonic convulsion in immature mice
Ricardo A. M. Reis, Regina C. C. Kubrusly, Maria C. F. de Mello and Fernando G. de Mello	375	Transient coupling of NMDA receptor with ip_3 production in cultured cells of the avian retina
Marta S. de Freitas, Angela G. de Mattos, Marcia M. Camargo, Clovis M. D. Wannmacher and Regina Pessoa-Pureur	381	Effect of phenylalanine and α-methylphenylalanine on *in vitro* incorporation of ^{32}P into cytoskeletal cerebral proteins

H. G. E. Lloyd and B. B. Fredholm 387 Involvement of adenosine deaminase and adenosine kinase in regulating extracellular adenosine concentration in rat hippocampal slices

Gabriel von Euler and Peter B. Hedlund 397 Regional and age-dependent differences in the affinity of dopamine D_2 agonist binding in the rat brain

A. M. Rosati, U. Traversa, R. Lucchi and A. Poli 411 Biochemical and pharmacological evidence for the presence of A1 but but not $A2_a$ adenosine receptors in the brain of the low vertebrate teleost *Carassius auratus* (goldfish)

I Erratum

II News Items

Number 5

Federico Bussolino, Raffaella Soldi, Marco Arese, Anita Jaranowska, Valeria Sogos and Fulvia Gremo 425 Invited Review: Multiple roles of platelet-activating factor in the nervous system

Nicolas G. Bazan and Elena B. Rodriguez de Turco 435 Critique: Platelet-activating factor is a synapse messenger and a modulator of gene expression in the nervous system

N. Belluardo, G. Mudo, P. Dell'Albani, X. Jiang and D. F. Condorelli 443 NMDA receptor-dependent and -independent immediate early gene expression induced by focal mechanical brain injury

Ching-Chow Chen, Jacque Chang and Wan-Wan Lin 455 Differential expression of protein kinase C isoforms in glial and neuronal cells. Translocation and down-regulation of PKC isoforms in C_6 glioma and NG 108-15 hybrid cells: effects of extracellular Ca^{2+}-depletion

Naoki Natsukari, Sui-Po Zhang, Robert A. Nichols and Benjamin Weiss 465 Immunocytochemical localization of calmodulin in PC12 cells and its possible interaction with histones

Mario Alberghina, Gabriella Lupo, Carmelina D. Anfuso and Salwa H. I. El Ghonemy 477 Lipid peroxidation inhibits acyl-CoA:-1-acyl-*sn*-glycero-3-phosphocholine *O*-acyltransferase but not CTP: phosphocholine cytidylyltransferase activity in rat brain membranes

John P. Headrick, Alan I. Faden and Robert Vink 489 Intrathecal dynorphin-A infusion in rat spinal cord causes energy depletion, edema and neurologic dysfunction

L. R. Barlow-Walden, R. J. Reiter, M. Abe, M. Pablos, A. Menendez-Palaez, L.-D. Chen and B. Poeggeler 497 Melatonin stimulates brain glutathione peroxidase activity

Eila Kolehmainen 503 Evidence supporting membrane fusion as the mechanism of myelin basic protein-induced insulin release from rat pancreatic islets

Avital Schurr, Ralphiel S. Payne and Benjamin M. Rigor 519 Protection by MK-801 against hypoxia-, excitotoxin-, and depolarization-induced neuronal damage *in vitro*

G. T. Vatassery, W. E. Smith, H. T. Quach and J. C. K. Lai 527 *In vitro* oxidation of vitamin E, vitamin C, thiols and cholesterol in rat brain mitochondria incubated with free radicals

537 Book Review

I News Items

Number 6

Erwin Tareilus and Heinz Breer	539	Commentary: Presynaptic calcium channels: pharmacology and regulation
Bernadette Earley, Mary Glennon, Brian E. Leonard and Jean-Louis Junien	559	Effects of JO 1784, a selective sigma ligand, on the autoradiographic localization of M_1 and M_2 muscarinic receptor subtypes in trimethyltin treated rats
Marek Samochocki and Joanna Strosznajder	571	The negative coupling between serotonin and muscarinic receptor(s) for arachidonic acid and inositol phosphates release in brain cortex synaptoneurosomes. Effect of aging
Klaus Slenzka, Ramona Appel and Hinrich Rahmann	579	Development and altered gravity dependent changes in glucose-6-phosphate dehydrogenase activity in the brain of the cichlid fish *Oreochromis mossambicus*
Frank N. Bolkenius and Denis Monard	587	Inactivation of protease nexin-1 by xanthine oxidase-derived free radicals
A. Héron, V. Springhetti, J. Seylaz and F. Lasbennes	593	Effects of a glutamate uptake inhibitor on glutamate release induced by veratridine and ischemia
Kei Hirayama and Gregory Kapatos	601	Expression and regulation of rat 6-pyruvoyl tetrahydropterin synthase mRNA
R. Joubert-Caron, D. Lutomski, F. Le Saux, J. Quinonero, M. Caron, Y. Davenne and D. Bladier	607	Oligoclonal β-galactoside-specific γ immunoglobulins allow the immunocytochemical detection of cellular antigenic determinants expressed in mouse brain after surgical injury
Carlos Velez-Pardo, Marlene Jiminez Del Rio, Guy Ebinger and Georges Vauquelin	615	Manganese and copper promote the binding of dopamine to "serotonin binding proteins" in bovine frontal cortex
Emmanuelle Blanc, Michel Vignes and Max Recasens	623	Protein kinase C differently regulates quisqualate- and 1S,3R-*trans* aminocyclopentane dicarboxylate-induced phosphoinositide hydrolysis during *in vitro* development of hippocampal neurons
Agnieszka Wawrzeńczyk, Katarzyna A. Nałęcz and Maciej J. Nałęcz	635	Effect of externally added carnitine on the synthesis of acetylcholine in rat cerebral cortex cells
Raymond M. Dawson	643	Oxime effects on the rate constants of carbamylation and decarbamylation of acetylcholinesterase for pyridostigmine, physostigmine and insecticidal carbamates
	655	Book Reviews
	I	News Items